

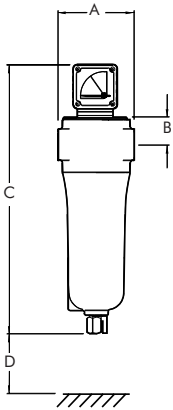
VACUUM PUMP PROTECTION FILTERS



Walker Filtration offer a full range of Vacuum pump protection filters from 1/4" to 3" connection sizes. The range covers the most popular size of vacuum pump with flow rates up to 550 Nm³/h (325 scfm) however larger fabricated models are available upon request. With a vacuum rating of 0.1 Torr they are suitable for both rough vacuum and high vacuum applications. The 5 micron VLR grade is designed for bulk liquid and high dirt removal to prevent liquid contamination and damage to rotating parts. The high efficiency 1 micron VX1 grade is designed

to remove very fine particulate matter which may damage the pump or process application. The filter elements use a high dirt loading glass microfibre filter medium backed up with stainless steel metalwork and nylon endcaps to offer low pressure loss performance. These models incorporate the unique Walker designed 'push on' filter element, which reduces maintenance time and allows the filter to be located in the most confined places. The filter housings are manufactured from diecast aluminium with a tough polyester powder coating and are supplied complete with differential pressure gauge and drain valve.

W WALKER
FILTRATION



Models A27 to A308

FILTER MODEL	PIPE SIZE	FLOW RATE		ELEMENT MODEL	DIMENSIONS mm				WEIGHT		DIMENSIONS inch				FILTER MODEL
		Nm ³ /h	SCFM		A	B	C	D	Kg	lb	A	B	C	D	
A27 (grade)	1/4	5	3	E511 (grade)	88	32	315	100	1.0	2.2	3 1/2	2	13	4	A27 (grade)
A39 (grade)	3/8	10	6	E511 (grade)	88	32	315	100	1.0	2.2	3 1/2	2	13	4	A39 (grade)
A55 (grade)	1/2	16	10	E511 (grade)	88	32	315	100	1.3	2.9	3 1/2	2	13	4	A55 (grade)
A76 (grade)	3/4	25	15	E711 (grade)	125	39	365	100	2.7	6	5	2	15	4	A76 (grade)
A105 (grade)	1	45	25	E811 (grade)	125	39	365	100	2.7	6	5	2	15	4	A105 (grade)
A123 (grade)	1 1/4	65	40	E811 (grade)	125	39	365	100	2.7	6	5	2	15	4	A123 (grade)
A153 (grade)	1 1/2	125	75	E831 (grade)	135	50	545	150	4.4	9.7	5 3/8	2	22	6	A153 (grade)
A203 (grade)	2	165	100	E831 (grade)	135	50	545	150	4.4	9.7	5 3/8	2	22	6	A203 (grade)
A205 (grade)	2	250	150	E851 (grade)	135	50	745	150	5.0	11	5 3/8	2	30	6	A205 (grade)
A250 (grade)	2 1/2	350	200	E1251 (grade)	200	68	805	200	11.5	25.4	7 7/8	3	32	8	A250 (grade)
A306 (grade)	3	450	265	E1261 (grade)	200	68	925	200	15.5	34.2	7 7/8	3	37	8	A306 (grade)
A308 (grade)	3	550	325	E1281 (grade)	230	65	1050	300	19	41.9	9 1/4	3	42	12	A308 (grade)

Larger sizes are available on application.

SPECIFICATION	GRADE VLR		GRADE VX1	
Particle removal	5 micron		1 micron	
Maximum temperature	120°C	248°F	120°C	248°F
Pressure loss-clean & dry	20 mbar	0.3 psi	40 mbar	0.6 psi
Pressure loss-change element	100 mbar	1.5 psi	100 mbar	1.5 psi
Maximum working pressure	4 bar abs.	60 psi abs.	4 bar abs.	60 psi abs.
Maximum working vacuum	0.1 Torr	full vacuum	0.1 Torr	full vacuum
Element end cap colour code	green		red	

NOTES

- Vacuum pump protection filters are manufactured from aluminium.
- Threaded connections are BSP parallel to ISO7/1 or NPT to ANSI B2.1 if supplied within North America.
- Filter element end caps are colour coded. Direction of air flow, inside to out, through filter element.
- Differential pressure gauges are fitted to models A27 (grade) to A308 (grade), part number 55DPG250W.
- Manual drain valves, model MDV25 are fitted to all models.
- Drain flasks are available for liquid collection.
- Mounting brackets are available for all models.
- All filter bodies feature the Walker E-Coat™ and are coated with blue polyester powder paint finish to eliminate corrosion.
- Vacuum pump protection filters and filter elements are suitable for use with mineral and synthetic oils.
- Vacuum pump protection filters and filter elements are silicone free.

CORRECTION FACTOR

For maximum flow rate, multiply model flow rate shown in the above table by the correction factor corresponding to the working vacuum.

Operating Vacuum	m bar abs	Atmospheric	900	800	700	600	500	400	500 mm hg	300	200
	torr	760	675	600	525	450	375	300	260	225	150
	psia	14.7	13	11.6	10.2	8.7	7.3	5.8	3.8	3.3	2.9
Correction Factor		1	0.93	0.86	0.79	0.71	0.64	0.57	0.53	0.5	0.43



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